

Industrial Valves and Power

75 Highland Drive Putnam, CT 06260

860 - 963 - 3377

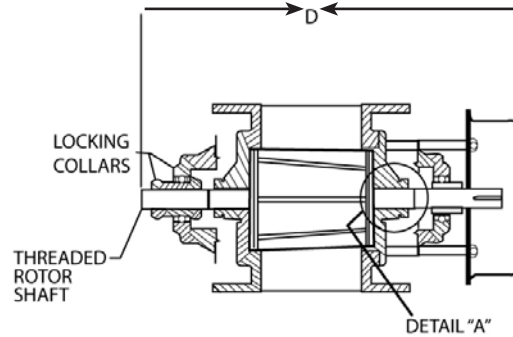
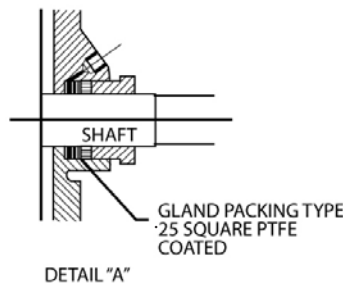
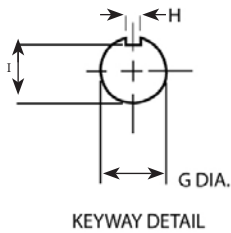
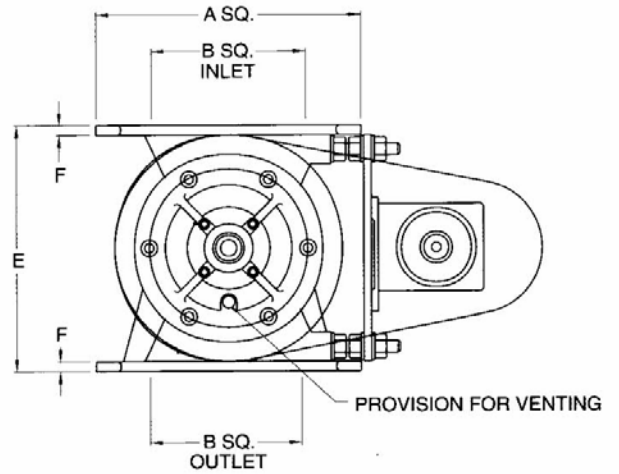
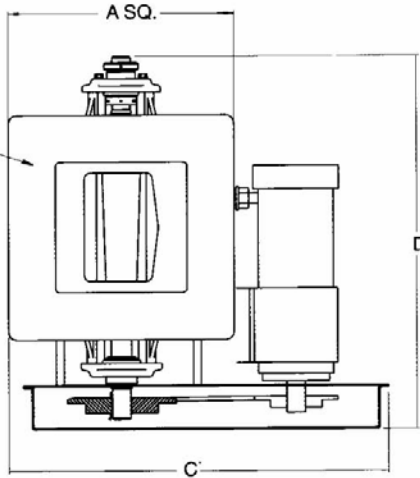
Website: www.kocheck.com

E-Mail: sales@kocheck.com

Rotary Valves



SQUARE/ROUND FLANGE DRILLINGS AND CUSTOM DRILL PATTERNS AVAILABLE SEE NEXT PAGE FOR DETAILS INLET AND OUTLET HAVE VEE-NECK DESIGN TO REDUCE SHEARING ACTION WHICH REDUCES LOAD ON DRIVE.



Part #	CFR*	A	B	C	D	E	F	G	H	I
IST15	0.05265	11.02"	5.90"	20.90"	21.25"	10.63"	.47"	1.125"	.250"	.986"
IST20	0.113	13.50"	7.87"	22.80"	22.60"	12.60"	.50"	1.125"	.250"	.986"
IST25	0.31073	15.98"	9.84"	28.90"	27.60"	15.00"	.50"	1.375"	.312"	1.201"
IST30	0.5367	19.00"	11.81"	29.90"	28.60"	16.54"	.50"	1.375"	.312"	1.201"
IST35	0.8474	21.00"	13.78"	33.90"	29.50"	19.69"	.79"	1.750"	.375"	1.542"
IST40	1.243	23.50"	15.75"	35.70"	32.40"	21.65"	.89"	1.750"	.375"	1.542"

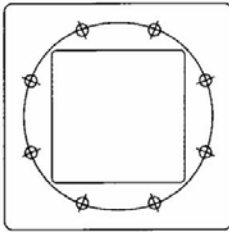
APPROXIMATE SHIPPING WEIGHT						
	IST15	IST20	IST25	IST30	IST35	IST40
W/O DRIVE	120 LBS	184 LBS	307 LBS	384 LBS	576 LBS	640 LBS
W/ DRIVE	180 LBS	240 LBS	350 LBS	450 LBS	690 LBS	760 LBS

*Theoretical Cubic Feet Per Revolution. Theoretical capacity is based on 100% Volumetric Efficiency (VE) at 1 RPM. Throughput is dependent on the volumetric efficiency of the product to be conveyed. For instance, lead oxide will have a higher volumetric efficiency than saw dust. Actual throughput in pounds per minute can be calculated using the following equation:

$$\text{LBS PER MINUTE} = \text{DENSITY} \times \text{CFR} \times \text{RPM} \times \text{VE}$$

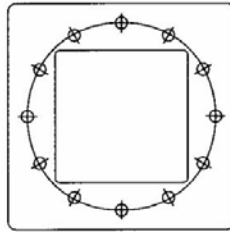
Design Details

**STANDARD ROUND
IST 15-40**



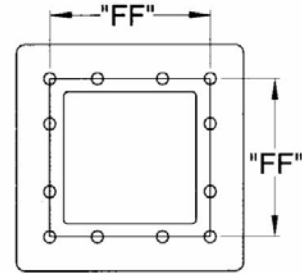
TOP AND BOTTOM
FLANGES
8 HOLES "AA" DIA
EQUISPACED ON
"BB" BOLT CIRCLE

**ASA 150
IST 25-35**



TOP AND BOTTOM
FLANGES
12 HOLES "CC" DIA
EQUISPACED ON
"DD" BOLT CIRCLE

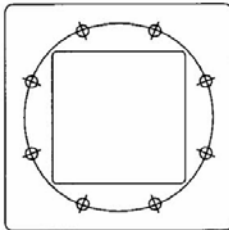
**SQUARE
IST 15-30**



TOP AND BOTTOM
FLANGES
12 HOLES "EE" DIA
EQUISPACED ON
"FF" GRID

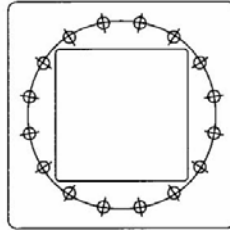
EQUAL PITCHES

**ASA 150
IST 15-20**



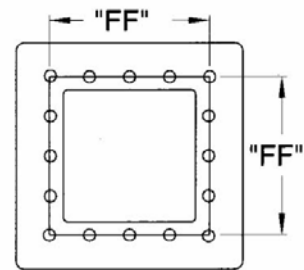
TOP AND BOTTOM
FLANGES
8 HOLES "CC" DIA
EQUISPACED ON
"DD" BOLT CIRCLE

**ASA 150
IST 40**



TOP AND BOTTOM
FLANGES
16 HOLES "CC" DIA
EQUISPACED ON
"DD" BOLT CIRCLE

**SQUARE
IST 35-40**



TOP AND BOTTOM
FLANGES
16 HOLES ON "EE" "DIA"
EQUISPACED ON
"FF" GRID

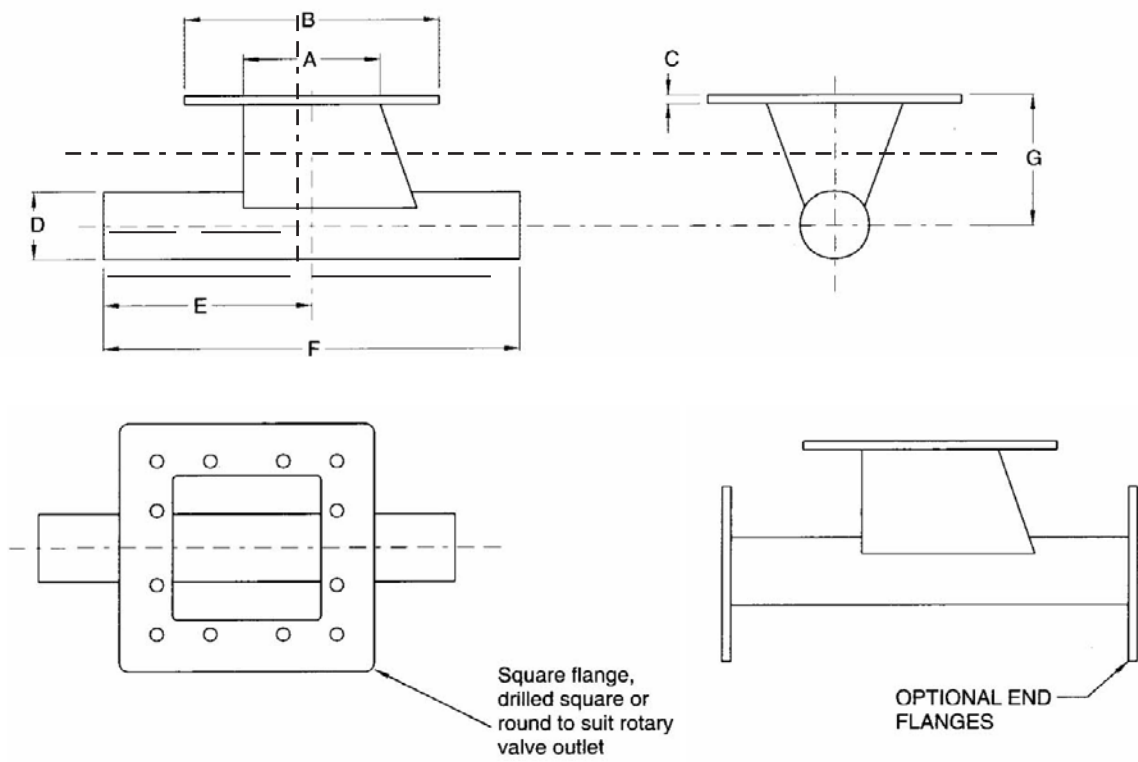
EQUAL PITCHES

SIZE	STANDARD ROUND		ASA150		SQUARE	
	AA	BB	CC	DD	EE	FF
IST15	.687"	9.25"	.875"	9.50"	.437"	8.25"
IST20	.687"	11.02"	.875"	11.75"	.437"	10"
IST25	.875"	14.00"	1.00"	14.25"	.562"	12.50"
IST30	.687"	14.96"	1.00"	17.00"	.562"	14.50"
IST35	.866"	19.53"	1.125"	18.75"	.562"	16.50"
IST40	.875"	19.53"	1.125"	21.25"	.750"	18.75"



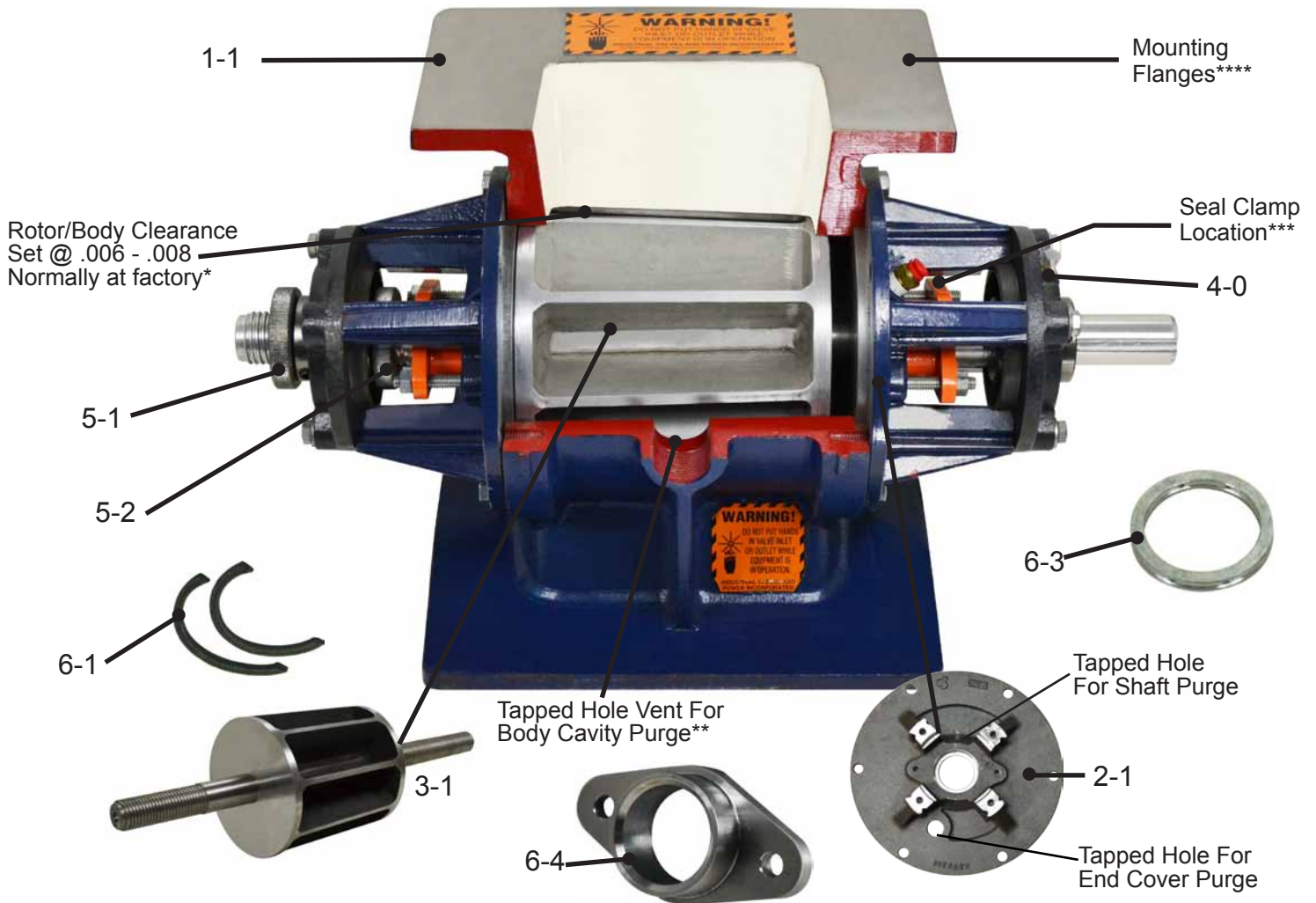
Line Loader:

The Line Loader provides the ability to discharge product directly into a pneumatic conveying line. Typical line sizes are 3, 4 and 6 inches, however, other sizes are available upon request. Line Loaders may be fabricated from mild steel or stainless steel. Below are typical dimensions for standard Line Loaders.

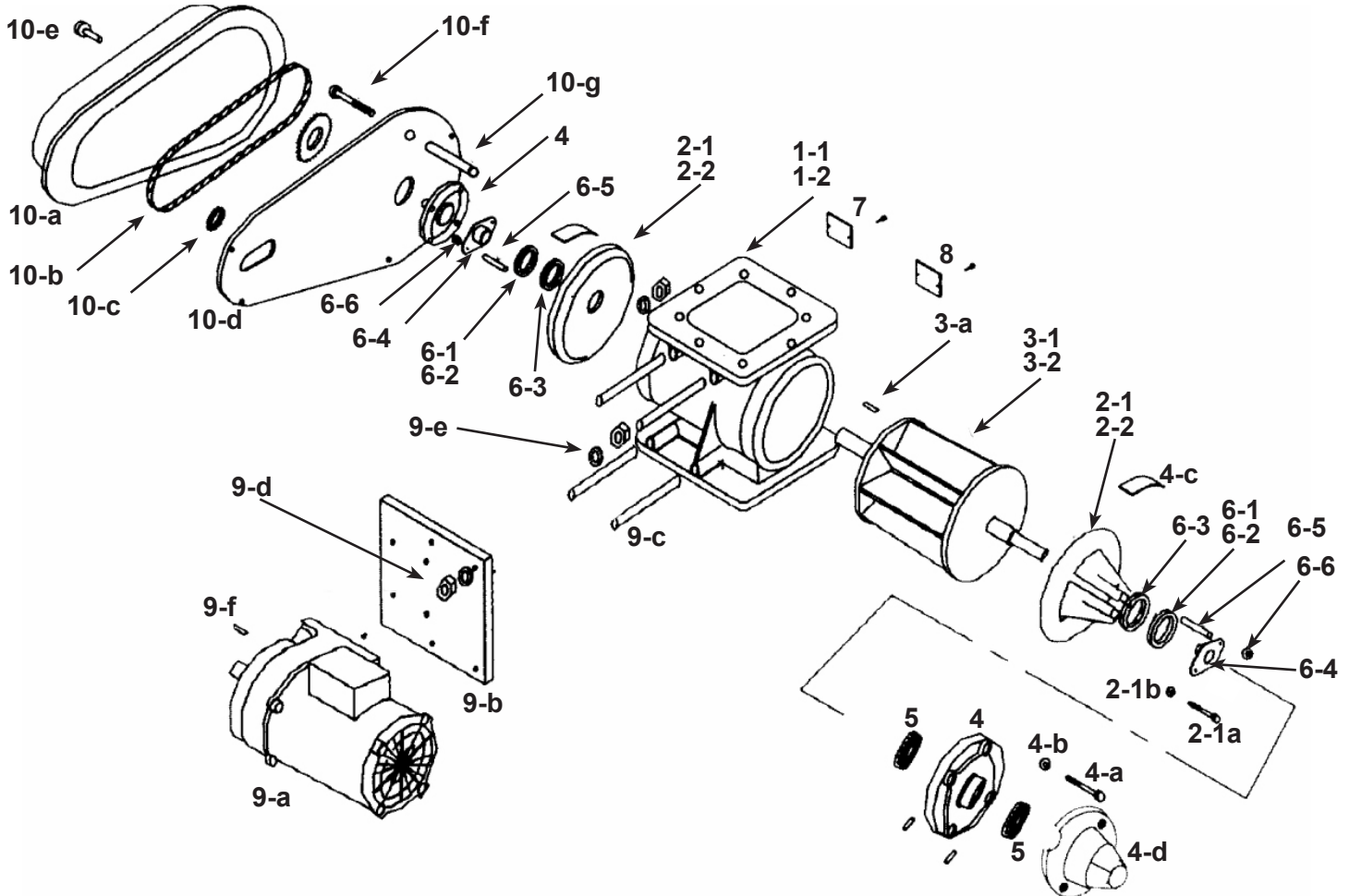


SIZE	A	B	C	D	E	F	G
LL15	5.91"	11"	0.38"	3"	9"	18"	5.75"
LL20	7.87"	13.5"	0.38"	3"	10.25"	20.5"	5.75"
LL25	9.84"	16"	0.38"	4"	11.5"	23"	6.50"
LL30	11.81"	19"	0.38"	4"	13"	26"	6.50"
LL35	13.78"	21"	0.5"	6"	14"	28"	9.00"
LL40	15.75"	23.5"	0.5"	6"	15.25"	30.5"	9.00"

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Number	Description
1-1	Ductile Iron or Stainless Steel Body Abrasion Resistant Bore Coating Available
2-1	End Cap
3-1	Fabricated Tapered Rotor 8 Vane Mild Steel AR Steel or Duresist™
4-0	Regreseable Outboard Flange Bearings
5-1	Adjusting Collar For Increasing Clearance
5-2	Adjusting Collar For Reducing Clearance
6-1	Graphite/Teflon/Kevlar Seal Packings
6-3	Purge Lantern Ring
6-4	Retainer Clamp
*	Rotor/Body Clearance Set @.006-.008 Normally at Factory
**	Tapped Hole Vent For Body Cavity Purge
***	Seal Clamp Location
****	Mounting Flanges



ITEM #	DESCRIPTION	RQD	MAT'L OF CONST	ITEM #	DESCRIPTION	RQD	MAT'L OF CONST
1-1	Body	1	Cast Iron	6-4	Seal Retainer Clamp	2	Aluminum
1-2	Body	1	Stainless Steel	6-5	Seal Retainer Stud	4	Steel-Zinc Plated
2-1	End Caps	2	Cast Iron	6-6	Seal Retainer Nut	4	Steel-Zinc Plated
2-2	End Caps	3	Stainless Steel	7	Serial No. / ID Plate	1	Aluminum
2-1a	End Cap Bolts	12	Steel-Zinc Plated	8	Safety Inst. Plate	1	Aluminum
2-1b	End Cap Washers	12	Steel-Zinc Plated	9-a	Gearmotor	1	
3-1	Rotor	1	Mild Steel	9-b	Motor Mounting Plate	1	Mild Steel
3-2	Rotor	1	Stainless Steel	9-c	Motor Plate Mounting Studs	1	Steel-Zinc Plated
3-a	Rotor Shaft Key	1	Steel	9-d	Motor Plate Mounting Nuts	4	Steel-Zinc Plated
4	Bearing	2		9-e	Plate Mounting Washers	8	Steel-Zinc Plated
4-a	Bearing Mount Bolts	8	Steel-Zinc Plated	9-f	Reducer Shaft Key	8	Steel-Zinc Plated
4-b	Bearing Washer	8	Steel-Zinc Plated	10-a	Guard Cover	1	Mild Steel
4-c	Bearing Dust Guard	6	Screens	10-b	Chain	1	Galvanized Steel
4-d	Shaft Cover	1	Aluminum	10-c	Sprockets	1	Steel
5	Clearance Adjusting Ring	2	Steel	10-d	Guard Plate	2	Steel
6-1	Seal Packing - Graphite	6	Graphite	10-e	Guard Cover Mt Screw	5	18-8SS
6-2	Seal Packing - Kevlar	6	Kevlar	10-f	Guard Plate Mounting Bolts	3	Steel-Zinc Plated
6-3	Purge Lantern Ring	2	Aluminum or Bronze	10-g	Guard Plate Mounting Spacer	3	Aluminum

Note: Please specify valve type and serial number when requesting parts information.

Parts Breakdown

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- Putnam, CT 06260
- www.kochek.com

Rotary valves, like any other component in a conveying, storage or environmental control system, must be tailored to each individual application in order to ensure the best possible results. Not all rotary valves are capable of accommodating the wide range of conveying variables that are prevalent in today's bulk product handling market. When properly installed, and applied with the operating parameters that pertain to a given conveying application, our TaperFlo® IST (tapered bore), series is more than capable of meeting the demands of high pressure, high temperature and highly abrasive or corrosive applications of these rigorous operating conditions, as well as the simplest gravity feed/discharge application.

To offer the greatest versatility a basic rotary valve must first be constructed in such a way that it will routinely handle both light duty, and by including certain special features, more arduous conveying applications. These special features include abrasive, or corrosive resistant coatings, mechanical seals, special mating flange drillings or other features that meet these parameters effectively, efficiently and economically.

Engineered and manufactured in the United States, and constructed of durable long life ductile iron, the Taper Flo® body bore, with corresponding mild steel, closed end, heavy duty rotor is engineered to offer the system operator the unique ability to very easily adjust the valve's rotor-to-housing radial clearance in order to significantly reduce the negative effects of differential pressure, and guarantee maximum product throughput. Drilled and tapped seal and end cover purge ports, and body vent are standard features supplied on all rotary valves, but can be plugged if not required.

Each of our Taper Flo® rotary valve designs is available in standard ductile iron sizes 6" - 16", stainless steel sizes 6"-14". A variety of rotor designs to accommodate very wide range of conveying requirements are available. Or registered Duresist™ rotor constructed of a special stainless steel installed in a ductile iron, Tungsten Carbide coated valve body, is incredibly effective at reducing detrimental effects common to abrasive product conveyance, and can very effectively extend valve life well beyond that where more conventional abrasion resistant materials are used. Contact us with your material handling requirements and Industrial Valves and Power is certain we will have a product to meet your needs.

